

UNITED STATES PATENT AND TRADEMARK OFFICE

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P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

09/03/2004

ROBERT E BUSHNELL 1522 K STREET, N.W. SUITE 300 WASHINGTON, DC 200051202

EXAMINER	
 PORTKA, GARY J	

ART UNIT

PAPER NUMBER

2188

DATE MAILED: 09/03/2004

Г	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
L	08/931,125	09/16/1997	HAE-SEUNG LEE	P54508	3842	

TITLE OF INVENTION: MEMORY SYSTEM FOR IMPROVING DATA INPUT/OUTPUT PERFORMANCE AND METHOD OF CACHING DATA RECOVERY INFORMATION

APPLN, TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
ponprovisional	NO	\$1330	\$300	\$1630	12/03/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: \underline{Mail}

Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

or <u>Fax</u>

(703) 746-4000

NSTRUCTIONS: This for appropriate. All further coru- ndicated unless corrected by maintenance fee notification	respondence including the P below or directed otherwise	mitting the ISSUE FEE atent, advance orders ar in Block 1, by (a) speci	E and PUBLICA nd notification of ifying a new corn	FION FEE (if re maintenance fee espondence addre	quired). Blocks 1 through 5 sh s will be mailed to the current ess; and/or (b) indicating a sepa	ould be completed where correspondence address as rate "FEE ADDRESS" for
	E ADDRESS (Note: Use Block 1 for a	any change of address)	F	e(s) Transmittal. pers. Each additi	of mailing can only be used for This certificate cannot be used for onal paper, such as an assignme cate of mailing or transmission.	or any other accompanying
ROBERT E BUS 1522 K STREET, N WASHINGTON, D	HNELL N.W. SUITE 300		I S ac tr	hereby certify tha	Certificate of Mailing or Trans t this Fee(s) Transmittal is being ewith sufficient postage for fire fail Stop ISSUE FEE address ISPTO (703) 746-4000, on the d	deposited with the United
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FIRST	NAMED INVENT	OR .	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/931,125	09/16/1997	НА	E-SEUNG LEE		P54508	3842
TITLE OF INVENTION: NFORMATION	MEMORY SYSTEM FOR	IMPROVING DATA I	INPUT/OUTPUT	PERFORMANC	E AND METHOD OF CACH	ING DATA RECOVERY
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUB	LICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330		\$300	\$1630	12/03/2004
EXAM	IINER	ART UNIT	CLA	SS-SUBCLASS		
PORTKA	, GARY J	2188	,	11-114000		
"Fee Address" indicat PTO/SB/47; Rev 03-02 (Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless	1 37 CFR 3.11. Completion	ation form (2) reg 2 reg 2 reg 1 list E PRINTED ON THE Part of this form is NOT a sub-	agents OR, aftern the name of a si- jistered attorney of egistered patent a ed, no name will ATENT (print or will appear on the bestitute for filing	ngle firm (having or agent) and the rettorneys or agents be printed. type)	as a member a 2anames of up to a 3signee is identified below, the distance is a signee as identified below, the distance is identified below.	ocument has been filed for
Please check the appropriate	e assignee category or catego	ries (will not be printed o	on the patent):	Individual	Corporation or other private gr	oup entity Government
4a. The following fee(s) are	enclosed:		ment of Fee(s):			
Issue Fee		_	A check in the amount of the fee(s) is enclosed.			
	small entity discount permitte f Copies	/	☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to			
Advance Order - # 0	r Copies	Depo	osit Account Num	ber	(enclose an extra c	opy of this form).
_ '	(from status indicated above MALL ENTITY status. See		. Applicant is no	onger claiming SI	MALL ENTITY status. See 37 C	FR 1.27(g)(2).
The Director of the USPTO NOTE: The Issue Fee and F interest as shown by the rec	is requested to apply the Iss Publication Fee (if required) ords of the United States Pat	ue Fee and Publication Fe will not be accepted from ent and Trademark Office	ee (if any) or to re anyone other that e.	-apply any previ n the applicant; a	ously paid issue fee to the applic registered attorney or agent; or t	ation identified above. he assignee or other party in
Authorized Signature				Date		
Typed or printed name _				_	tion No.	
Alexandria, virginia 22515	-1430.				by the public which is to file (an 12 minutes to complete, includi y comments on the amount of ti and Trademark Office, U.S. Depters. SEND TO: Commissioner is it displays a valid OMB control	



WASHINGTON, DC 200051202

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75	90 09/03/2004		EXAM	INER
ROBERT E BUSHNELL		PORTKA	PORTKA, GARY J	
1522 K STREET, N.W. SUITE 300			ARTUNIT	PAPER NUMBER

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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 222 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 222 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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ROBERT E BUS	SHNELL		PORTKA	, GARY J
1522 K STREET, WASHINGTON, I			ART UNIT	PAPER NUMBER
W/M/M/(01010, DC 200051202			2188	

DATE MAILED: 09/03/2004

Notice of Fee Increase on October 1, 2004

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2004, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" because an increase in fees effective on October 1, 2004 is anticipated. See Revision of Patent Fees for Fiscal Year 2005; Proposed Rule, 69 Fed. Reg. 25861, 25863, 25864 (May 10, 2004).

The current fee schedule is accessible from WEB site (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2004 (or mailed with a certificate of mailing on or after October 1, 2004), the issue fee paid should be the fee that is required at the time the fee is paid. See Manual of Patent Examining Procedure (MPEP), Section 1306 (Eighth Edition, Rev. 2, May 2004). If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See MPEP Section 1308.01.

Effective October 1, 2004, 37 CFR 1.18 is proposed to be amended by revising paragraphs (a) through (c) to read as set forth below. As stated above, the final fee may be a different amount, and applicant should check the WEB site given above when paying the fee.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

By a small entity (Sec. 1.27(a))......\$245.00

By other than a small entity......\$490.00

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))......\$325.00

By other than a small entity......\$650.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.